

# How to enable CO<sub>2</sub> capture from bioenergy with storage in Norway

**Setting the framework for achieving net zero emissions, 26 May 2021**

German-Norwegian Energy Dialogue 2021 Webinar Series

Bjørgulf Haukelidsæter Eidesen, CEO Horisont Energi



# OUR MISSION STATEMENT

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BRIDGING THE GAP TO A  
**CARBON NEUTRAL FUTURE**

# Who we are



Based on the western coast of Norway

- **Founded** in 2019
- **Head office** in Sandnes, Norway

Focusing on commercialisation of carbon storage through

- **Clean hydrogen** and **ammonia**
- End-to-end **carbon storage**

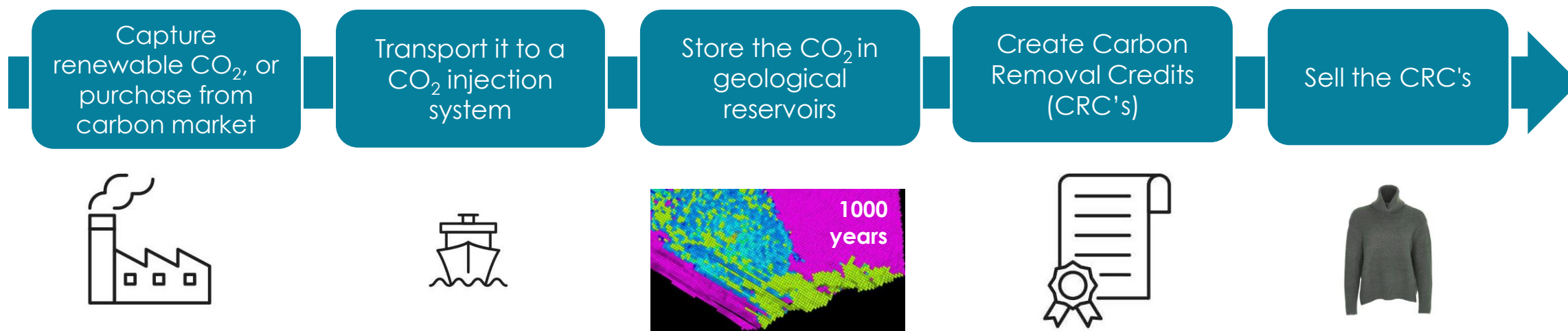
Organised with competent and experienced personell for

- **offshore carbon facilities** developments; and
- **onshore hydrogen** and **ammonia facilities** development

# Development of carbon removal projects

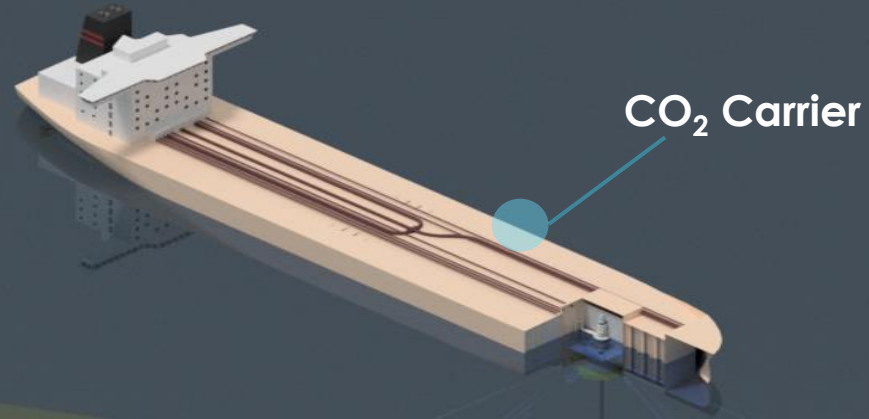
1. Carbon storage assets
2. Renewable CO<sub>2</sub> from a carbon market or through CO<sub>2</sub> capture
- 3. A legislative framework and a business model framework**
4. Customers buying carbon removal credits – and using them

## The carbon removal value chain



# Polaris CO<sub>2</sub> Storage

Onshore Control Room



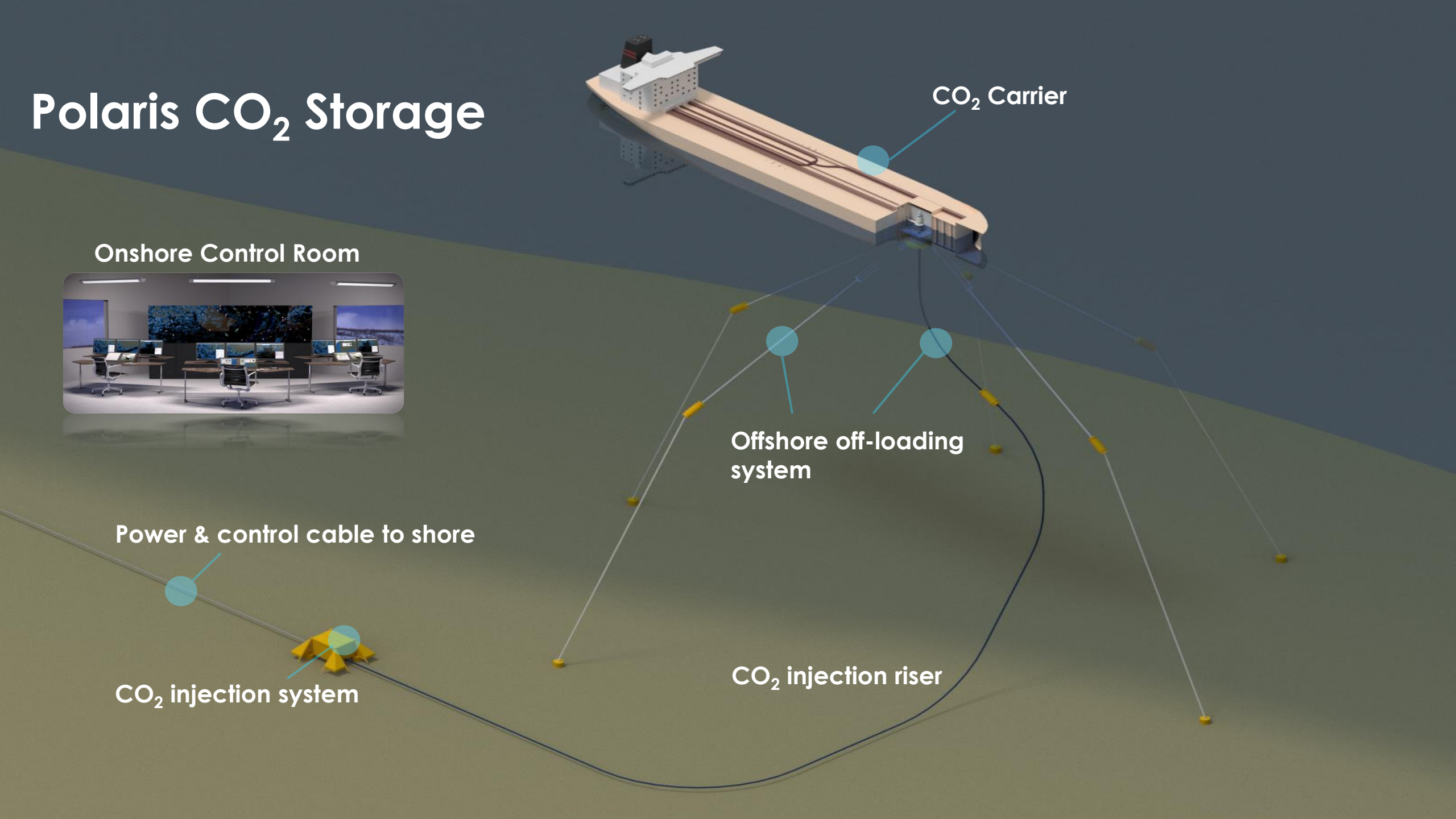
CO<sub>2</sub> Carrier

Offshore off-loading system

Power & control cable to shore

CO<sub>2</sub> injection system

CO<sub>2</sub> injection riser

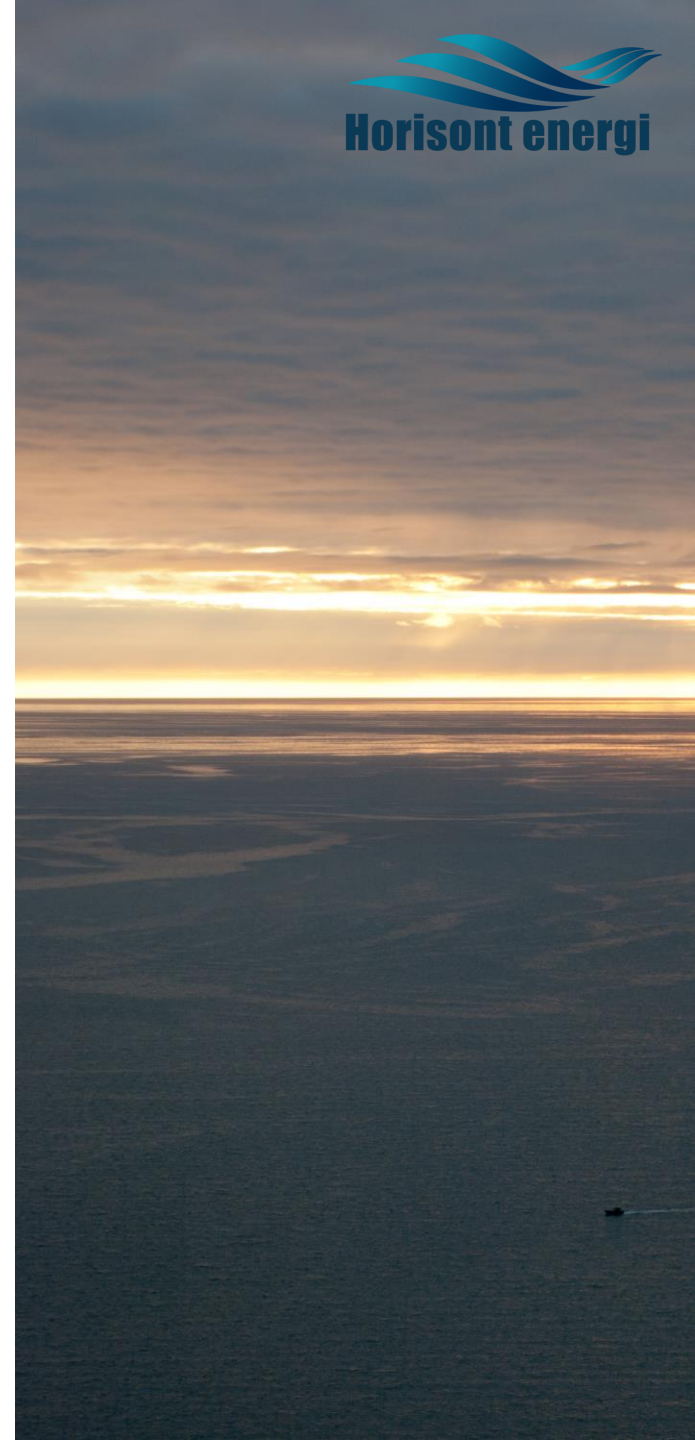


# Challenges to be met by legislation

Use existing EU legal framework

Operability and transparency

Cross-border trading



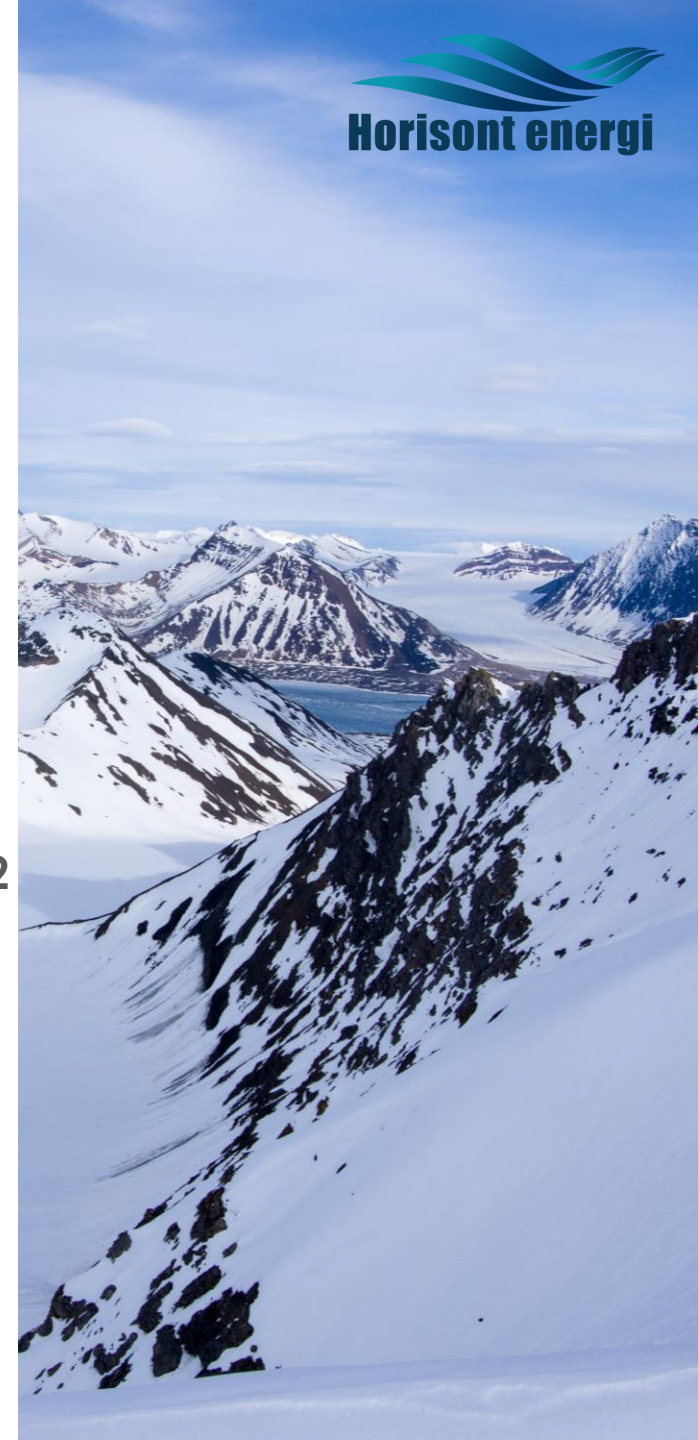
# Key points of our legislative proposal

## Governing law

- A national legislation governed by **the Effort Sharing Regulation (ESR)**

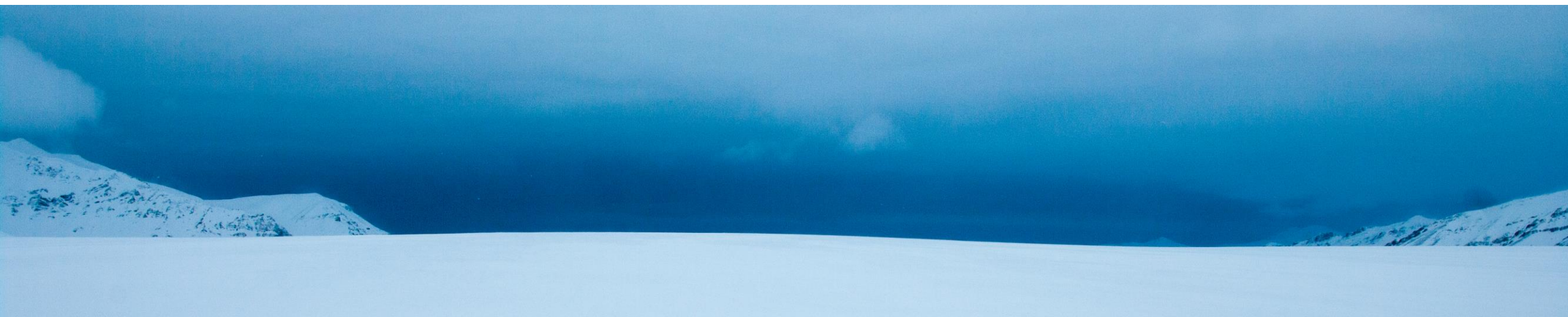
## Key principles

- A national register with **an issuer and an auditor**, governed by **AIB**
- **Renewable CO<sub>2</sub>** from biomass measured and **certified** according to **RED2**
- **Mass-balance based** system for CO<sub>2</sub> capture, transport and storage
- **1 ton of renewable CO<sub>2</sub>** stored gives **1 CRC**
- **Emission reduction** in the country **where the CRC is used**
- **A unified definition of CRC's** in EU allowing cross-border trading



# Key messages

- We would like to bring the following to your attention:
  1. Early establishment of **a unified definition of carbon removal certificates** in EU
  2. Establish an **EU Directive to be governed by the Effort Sharing Regulation**
  3. Create a **definition of renewable CO<sub>2</sub> under the Renewable Energy Directive**



**THANK YOU**